

METHOD AND SYSTEM FOR CREATING SECURE ADDRESS SPACE  
USING HARDWARE MEMORY ROUTER

ABSTRACT OF THE DISCLOSURE

A method and system providing dynamic allocation of memory through  
5 hardware is disclosed. An embodiment provides for a multi-processor system  
providing for a secure partitioned memory. The system comprises a  
processor(s), a hardware implemented memory router coupled to the  
processor(s), and memory coupled to the memory router. The memory router  
stores memory partition information, which describes the memory allocated to  
10 the processor(s). Furthermore, the memory router maps a memory access  
request from a processor to an address in the memory.